

Home Computing WEEKLY

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SCISOFT

EXTRA
Spectrum and
ZX81 users:
Essential 48-
page guide to
add-ons

Two pages of
Commodore 64
software
reviews,
PLUS: Spectrum,
BBC, Dragon,
Electron, Texas

Great games to
type in for:
BBC / Electron,
Spectrum,
Texas, Dragon

Programming
advice for:
Atari, Sord MS,
Commodore 64

**new Spectrum
Arcade action**



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Surrey GU10 4LA, UK

No. 50
Feb 21-27, 1984

48P

**ADD
ONS**
ZX81 &
SPECTRUM

REVENGE
OF THE MUTANT CAMEL

KONG
KONG

LUNAR
RESCUE

First
computer
software
from
Activision

Games cartridge manufacturer Activision have just announced software cartridges for the Atari 400 and 800 home computers.

Fox Tales are River Road and Activision's first incursion into the computer software market. Up until now they have been producing plug-in game programs for dedicated gamers playing consoles such as the Atari 2600 and Mattel Intellivision.

Both cartridges retail at £7.99 and can be obtained from all good computer stores.

Continued on page 7

**Joystick
update and
Spectrum
amp from
AGF**

AGF have announced that it is releasing the price of its programme module Joystick Interface to £12.95. Cheaper components and improved production techniques account for the reduction in price together with the cancellation of the second player option. An "inertial" feature has been added to compensate for this. The original Inertial Module II

Continued on page 7

**new Spectrum
Adventure**

Spectrum Safari

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an earth patrol is marooned.
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**Lynx disc
drives**

Owners of the Lynx can now add up to four 5½ inch drives, each with a capacity of 20MB. (Estimated). Each comes in its own metal case with illuminated control switch and disk access light. The operating system, Lynx DOS, is fully functional and available now. It adds 19 commands to the existing BASIC and allows all disk functions to be carried out. Connection is easy and made via the ring in disk interface with a simple keyboard cable connector.

Computers, 334, Brereton Street,
Camberley GU11 1WY

**War Games
From CGS**

Look at the range of war games from CGS. In War 50, a Napoleonic war game at the mid-point of the game, war games that last but for days, like Pacific War, a simulation set in the Second World War on the basis of Commando. War games far more interesting than CGS won the 1983 Cambridge Award for their Basic 1.1 program. They are also hoping for great things with their two new releases.

CGS Computer Simulations Ltd, 14 London Rd, St Albans, Herts, WD1 1TL.

**Joystick
Interface
with sound**

Random Electronics have just launched a new programmable joystick interface which is designed in the Sinclair Spectrum as an accessories and software, while also offering sound amplification to boost the real sound output from the Spectrum.

It can be used to convert those games that depend on the keyboard for operation and is especially applicable to any of the 40 keys. Price is £24 plus £3 p/p.

Random Electronics, Globe House, South Lye, Wrexham, Gwynedd LL13 6JZ

Home Computing WEEKLY

News, One Month View 6, 8

Software reviews 8

Original games for Spectrum, BBC, Dragon

Commodore 64 programming 10

What you can do with BASIC

Amstrad CPC programming 12

How to design your own characters

£1,000 SciSoft competition 15

Commodore 64 software reviews 16

TI-99/4A program 18

Software reviews 21

Games for Spectrum, Electron, Dragon

Letters 24

Your free 48-page guide to add-ons for the Spectrum and ZX81 is here, PLUS a great Spectrum game to type in

Atari programming 25

For the dos for "heat" column

Commodore software reviews 27

Software reviews 30

Auto-tapping with Spectrum, Dragon, TI

Software charts 32

BBC/Electron progress 34

Can you find a way through the puzzle?

S.A. Survey 35

Software reviews 36

For Spectrum, Dragon, BBC

Dragon program 38

Bomb your way to safety

Classified ads about us 42



COMPUTE! READER SURVEY

Commodore 64 user? Here's two pages of software reviews and an article on programming in this issue.

SCISOFT

Events coming up? To the £1,000 competition on page 15 and you could win a discounted tape from SciSoft



This great driving game, which starts on page 24, works on the BBC and Electron computers

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Design your own characters on the Sinclair MIU — just type in the routine on page 12

ULTIMATE

A black and white photograph showing a large pile of various metal hardware components. The items include several large, thick washers, some smaller flat washers, and other metal parts like nuts and bolts. The components are piled haphazardly, with some overlapping others. The lighting creates strong highlights and shadows on the metallic surfaces, emphasizing their texture and form.

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From front page

River Road, designed by Carol Shaw, is an adventure game in which you are a lighter pilot forced with the task of destroying bridges along a river while the enemy does its best to shoot you down. The further you go, the more difficult it gets. Originally developed for the Amstrad VLS, the game is now enhanced with colour graphics and sound effects.

Kaboom is listed as a whacky fast action roller game in which you must either be a Mad Bomber or a flat packing Blackout, charged with the job of clearing the bombs. Again, colour is made of the Amstrad's palette but improved graphics.

Activation Software Ltd, Golden Mile, Loughborough, LE11 2PL

From front page

has been slightly modified and will join usual fee £12.99 plus £1 p/p.

AGF has an amplifier and lead switching unit for the Sinclair Spectrum. Called Amplisound, it connects between the cassette recorder and computer taking its power from the computer itself. At three positions, namely allows you to LOAD or EXEC without removing any leads while the third position is for amplifying the BBC/EPP command stored print in 124 K with £1 p/p.

Amplifier boards are also made at price £1.99. They provide connection between the back of the computer when used as a keyboard and peripherals. These are available for both Spectrum and ZX81 computers.

AGF Hardware, 28 Van Gogh Place, Jasper Street, Warrington WA2 8BY

Drawing the light fantastic?



High-Res Draw program being used with the light pen

Opalsoft Alphabet

Just out from Opalsoft is Alphabet, a game designed by David Mithaga. Designed as a reading aid for young children, Alphabet costs £6.99 and can be obtained from most good computer stores, or by post direct from the company. It is available for use with the BBC B computer only.

Opalsoft, 11 Alverst Road, Eastwood, Leigh on Sea, Essex SS9 4BG

Lightscribe technology comes to the Commodore 64 with the launch of the Lightscribe and compatible programmes from Dragon. Already experience has been gained on Lightscribe for the BBC B, Dragon 32 and VIC-20 computers, now it is applied to the Commodore 64 version.

There are three programmes supplied with each pack book, one designed in a layout which enables the user to incorporate the facilities offered easily into his own programme. The first programme is simply an introduction, highlighting all the features of the device.

The second, called colour draw, allows the user to produce drawings by transferring the colour graphics characters from a menu to the desired position on the screen.

The third program, called High-Res Draw enables the user to produce a drawing down to 200 by 128 pixel resolution, directly onto the TV screen. A Scribble feature and Editor will be available shortly.

The Dragon Lightscribe for the Commodore 64 costs £29 including p/p.

Dragon, Monksbridge Close, Kingsgate Road, Gresford, Monmouthshire NP20 1JA

You could be on our pages

We welcome programs, articles and tips from our readers.

PROGRAMS must always be sent on cassette. Listings are helpful, but not necessary. Check carefully that they are bug-free. Include details of what your program does, how it works, variables you have used and hints on conversion.

ARTICLES on using home computers should be no longer than 2,000 words. Don't worry about your writing ability — just try to keep to the style in *ACW*. Articles most likely to be published will help our readers make better use of their machines by giving useful ideas, possibly with programming examples; we will convert any selected illustrations into finished artwork.

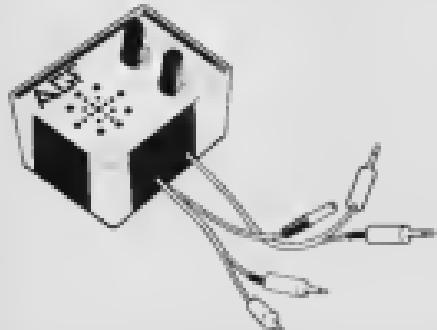
TIPS are short articles, and brief programming routines which we can put together with others. Your hints can aid other computer users.

Competitive rates are paid.

Keep a copy of your submissions and include an SAE if you want them returned. Label everything clearly and give a daytime and home phone number if you can.

Paul Lipkoff, *Home Computing Weekly*, No. 1 Golden Square, London W1R 3AB

The AGF Amplisound for the Sinclair Spectrum



Low cost printer and typewriter from Brother

Two new products just launched are the Brother EP44 electronic typewriter and the EP45 printer.

The EP44 has a full 120 dot dotmatrix, weighs less than 2kg and offers all the facilities of a full typewriter as well as 12 character LCD display and full BBC graphical interface so it can be hooked up into most computers.

The 24 by 32-dot matrix printer gives letter quality print with full graphics and character set support at 600 dots per square inch on thermal paper or with a basic transfer thermal ribbon onto smooth finish plain paper. As well as the standard 44 character keyboard, a second shift key allows access to an additional set of foreign language characters and accents.

Simple word processing is possible with a standard logic keyboard, enhanced with the shift, memory and stop codes letting printing to allow individual macro such as names and addresses to be entered.

Other functions include a printing calculator — four arithmetic functions are included plus programmed the results can be displayed on the LCD display screen if preferred.

As a computer printer the EP44 has the RS232C interface which allows easy connection to any model with a serial output. Print speed is 10 characters per second and continuous feed paper can be used.

With facsimile connection or via an acoustic coupler, the EP44 can be used as a full feature computer terminal. Data rate is variable from 30 to 1200 and baud rate can be either 7 or 9. The print resolution is

At £179.95, the EP44 printer brings good quality hard copy within the reach of many home computer users. Options include a full 40 characters with graphics capacity and the Vixy 800 means printer will use other thermal paper or plain paper with a heat transfer ribbon. Print speed is 30 characters per second. The full CGA, SCII character set is available plus 40 block graphics and 17 international characters and symbols, and the EP45 can be expanded with either 16K or 32K of Continuous parallel interface.

Brother Office Components Division, 2897-98, Castle Bridge, Andover, Hampshire SO9 2ND

Integer BASIC compilers from Oxford

Oxford Computer Systems has developed a set of integer BASIC compilers that allow you to convert BASIC 1981 code into machine code. This allows speed improvements of between 100 and 1,000 times. These normally delivered and have been developed for the Commodore 64, VIC-20, PET-200 and the 3000/4000/5000 business computer range.

The package consists of two compilers — a resident compiler for experiments and a disk-based compiler. Unfortunately new programmes have to be re-linked on the Commodore 6000 business machine before being cross compiled for the Commodore VIC-20/3-128, although it does mean that previous programmes developed for the 6000 can now be used on the other machines.

Oxford Computer Systems, Wellington Road, Woodstock, Oxford OX7 1JW

Crazy about their status symbols...

About two years ago I got involved in computers through a computer club at my school. I rushed out buying a TI-99/4A, which wasn't for me. I'm not saying it's rubbish — some of the cartridge software can't be beaten and the speech synthesiser is brilliant — but I felt its BASIC was too limited and slow.

When I got my TI there were only four, maybe five, people in my form with computers. Since Christmas I estimate that more than half now have them. But instead of learning on them, all they do is play games such as *Alien Park* and *Nearce Goer Sko-ay*.

I think it's a waste of time for parents to fork out over £700 for a computer to play games on when you can buy an Amstrad game for less than £50.

To most children the computer is a status symbol. All you hear is "... my computer has more memory than yours", "... my computer has better graphics than yours" and so on. One boy I know makes fun of the owners of another boy's ZX81. He has a VIC-20. But if you compare it with, say, the Commodore 64, who has the slimmest memory then?

Everybody is going computer crazy.

I recently down bought a BBC micro and I've discovered the benefits of its superb BASIC and graphics. I never used that at first I only played games on it. But now I've stopped playing games and have finally finished reading the advanced user guide. Other kids are still playing games.

Children, including me, tell non-geeks about computers. My main concern gets answered about one because since I got my computer I very rarely go outside. I just sit in my room mucking on my computer for at least five hours a day.

What really gets me is that some people think that if they get a really advanced computer with, say, 128K of RAM, proper keyboard and full colour high-resolution graphics, they think that the user is also clever.

That's not true, of course. A good programme on a ZX81 could probably score a better and more interesting game than, for example, a BBC micro user given the same time and effort.

**Julian Shaverton
Manchester**

a This space is for you to sound off about the latest news, to present requests, to bad-mouth us, or just to share your opinions or experiences. Your contribution, which will earn a fee, should be sent to Paul Elagnet, Home Computing Weekly, No. 1 Colliers Square, London W1R 3AB.

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The programs of the BASIC ROM in the Commodore 64 can be copied into RAM and then altered as you will — in just the same way as the character ROM, can be copied and then certain characters redefined.

In fact, the copying of BASIC is even easier because there is no need to switch off the interrupt routines. This article will use the technique to enable Commodore 64 users to redefine any error message or BASIC keyword — and is doing so to gain a greater understanding of how the computer works.

Program 1 shows how this can be done. The loops from 10 to 30 copy the ROM into RAM, copying at a rate of one byte between the BASIC ROM, so that the RAM at the same location is used instead. If you want to enter POKE 1,54 without copying the ROM, the computer would just do it when next given an address. The STAYTUP and RST60/100 bytes, leaving the BASIC ROM at 0,10.

Note that we are using RAM which shares the same memory locations as the BASIC ROM and is normally not used. This leaves the normal RAM free for BASIC programs.

The second part of Program 1 demonstrates how the BASIC vocabulary can be altered. The error messages and keywords are stored in ASCII as blocks of ASCII code. Note that the BASIC language is in RAM, so it is possible to POKE new values, redefining characters, and the message table to define alternative error messages and keywords.

Line 30 declares the memory location of the first character in SYNTAX. Line 50 is the same, which is to replace SYNTAX. The loops in lines 30 to 50 take each character in turn and replace the ASCII code of each character with the decimal value.

While entering line 50, hold down the SHIFT key while pressing the last character to be passed. The program will take about 40 seconds to RUN, almost all the time being taken by the first loop. After running the program, enter commands which would normally generate a SYNTAX ERROR (not difficult to do!) and see what happens. By changing the string in line 60 you can choose your own alternative to the dreaded SYNTAX ERROR.

The last character of each message in POKE is indicated by using a shifted character. Should you forget to shift this character, the same message in the table will be printed with nothing of value (as the characters step by word (which assistance may be offered if required), but the next message

Write your own BASIC ...almost

It's easy to tinker with the BASIC in the Commodore 64 — and gain more knowledge of the computer at the same time. S. A. Sassoon explains how to use his two short routines



Program 1 — copies the BASIC ROM into RAM

```
100 FOR I=10 TO 30: POKE 0,I: POKE 1,I: POKE 2,I: POKE 3,I: POKE 4,I: POKE 5,I: POKE 6,I: POKE 7,I: POKE 8,I: POKE 9,I: POKE 10,I: POKE 11,I: POKE 12,I: POKE 13,I: POKE 14,I: POKE 15,I: POKE 16,I: POKE 17,I: POKE 18,I: POKE 19,I: POKE 20,I: POKE 21,I: POKE 22,I: POKE 23,I: POKE 24,I: POKE 25,I: POKE 26,I: POKE 27,I: POKE 28,I: POKE 29,I: POKE 30,I: POKE 31,I: POKE 32,I: POKE 33,I: POKE 34,I: POKE 35,I: POKE 36,I: POKE 37,I: POKE 38,I: POKE 39,I: POKE 40,I: POKE 41,I: POKE 42,I: POKE 43,I: POKE 44,I: POKE 45,I: POKE 46,I: POKE 47,I: POKE 48,I: POKE 49,I: POKE 50,I: POKE 51,I: POKE 52,I: POKE 53,I: POKE 54,I: POKE 55,I: POKE 56,I: POKE 57,I: POKE 58,I: POKE 59,I: POKE 60,I: POKE 61,I: POKE 62,I: POKE 63,I: POKE 64,I: POKE 65,I: POKE 66,I: POKE 67,I: POKE 68,I: POKE 69,I: POKE 70,I: POKE 71,I: POKE 72,I: POKE 73,I: POKE 74,I: POKE 75,I: POKE 76,I: POKE 77,I: POKE 78,I: POKE 79,I: POKE 80,I: POKE 81,I: POKE 82,I: POKE 83,I: POKE 84,I: POKE 85,I: POKE 86,I: POKE 87,I: POKE 88,I: POKE 89,I: 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POKE 174,I: POKE 175,I: POKE 176,I: POKE 177,I: POKE 178,I: POKE 179,I: POKE 180,I: POKE 181,I: POKE 182,I: POKE 183,I: POKE 184,I: POKE 185,I: POKE 186,I: POKE 187,I: POKE 188,I: POKE 189,I: POKE 190,I: POKE 191,I: POKE 192,I: POKE 193,I: POKE 194,I: POKE 195,I: POKE 196,I: POKE 197,I: POKE 198,I: POKE 199,I: POKE 200,I: POKE 201,I: POKE 202,I: POKE 203,I: POKE 204,I: POKE 205,I: POKE 206,I: POKE 207,I: POKE 208,I: POKE 209,I: POKE 210,I: POKE 211,I: POKE 212,I: POKE 213,I: POKE 214,I: POKE 215,I: POKE 216,I: POKE 217,I: POKE 218,I: POKE 219,I: POKE 220,I: POKE 221,I: POKE 222,I: POKE 223,I: POKE 224,I: POKE 225,I: POKE 226,I: POKE 227,I: POKE 228,I: POKE 229,I: POKE 230,I: POKE 231,I: POKE 232,I: POKE 233,I: POKE 234,I: POKE 235,I: POKE 236,I: POKE 237,I: POKE 238,I: POKE 239,I: POKE 240,I: POKE 241,I: POKE 242,I: POKE 243,I: POKE 244,I: POKE 245,I: POKE 246,I: POKE 247,I: POKE 248,I: POKE 249,I: POKE 250,I: POKE 251,I: POKE 252,I: POKE 253,I: POKE 254,I: POKE 255,I: POKE 256,I: POKE 257,I: POKE 258,I: POKE 259,I: POKE 260,I: POKE 261,I: POKE 262,I: POKE 263,I: POKE 264,I: POKE 265,I: POKE 266,I: POKE 267,I: POKE 268,I: POKE 269,I: POKE 270,I: POKE 271,I: POKE 272,I: POKE 273,I: POKE 274,I: POKE 275,I: POKE 276,I: POKE 277,I: POKE 278,I: POKE 279,I: POKE 280,I: POKE 281,I: POKE 282,I: POKE 283,I: POKE 284,I: POKE 285,I: POKE 286,I: POKE 287,I: POKE 288,I: POKE 289,I: POKE 290,I: POKE 291,I: POKE 292,I: POKE 293,I: POKE 294,I: POKE 295,I: POKE 296,I: POKE 297,I: POKE 298,I: POKE 299,I: POKE 300,I: POKE 301,I: POKE 302,I: POKE 303,I: POKE 304,I: POKE 305,I: POKE 306,I: POKE 307,I: POKE 308,I: POKE 309,I: POKE 310,I: POKE 311,I: POKE 312,I: POKE 313,I: POKE 314,I: POKE 315,I: POKE 316,I: POKE 317,I: POKE 318,I: POKE 319,I: POKE 320,I: POKE 321,I: POKE 322,I: POKE 323,I: POKE 324,I: POKE 325,I: POKE 326,I: POKE 327,I: POKE 328,I: POKE 329,I: POKE 330,I: POKE 331,I: POKE 332,I: POKE 333,I: POKE 334,I: POKE 335,I: POKE 336,I: POKE 337,I: POKE 338,I: POKE 339,I: POKE 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LLAMASOFT NEWS

NEW for the UK Expanded VIC:

HELL GATE

A very fast-paced arcade game featuring simultaneous control of a high-speed laser cannon. Unique game action is easy to learn yet difficult to master. Features include 20 levels to challenge, your automatic Smart bombs, seven-place High Score table with some signature memory feature and full attract mode. A superb Jeff Minter design presented immaculately on a 25 x 30 screen.

£6.99

COMMODORE 64: After finishing HELL GATE Jeff took a couple of days to zip the code onto the C64. Whilst this is no Revenger or House Doctor, we are offering HELL GATE C64 at the bargain price of £5.99... an interesting diversion to occupy a little time while you wait for Jeff's next VIC opus, which we can now reveal will be called...

SHEEP IN SPACE — for which Jeff promises the usual great graphics and sound — and amazingly new control concept... so prepare to feel extremely sheepish in a few months time.

Until then — to all our followers

A) HAPPY PLASTING/MOWING/SITTING ETC.

B) DON'T SHOOT THOSE GOATS!!

© 1988 LLAMASOFT LTD LAMASOFT



Jeff

Minter

LLAMASOFT

AWESOME GAMES SOFTWARE

2000-05-10 10:00:00 AM (EST)

This program allows you to define characters and spaces very easily on a line and it will run with PCMCIA or MMPC-II on the Serial port.

When this program is run you will see a 16x16 grid which one of the dots is flashing. This flashing dot is your current position and you can move this anywhere on the grid by pressing the cursor keys.

To create a dot at that position press the space key and to press a dot, press alt+shift at the top-right hand corner of the keyboard.

Whatever you are supplied with the character press 'y', then you will see the statistics necessary to assess this character. At this point you can press 'l' to exit the character you have just made, 'L' to define another character or press 'q' to quit the program altogether.

When you are defining a character, you can name the character by pressing 'n', update the character you're creating by pressing 'u', name the character by pressing 'm', or clear the grid by pressing 'c'.

Improve your characters the easy way

Type in Shingo Sugiura's character generator program for the Sord M5 and make your own characters and sprites

1. **What is the primary purpose of the study?**
2. **What is the study's main hypothesis or research question?**
3. **What are the key variables being measured?**
4. **How were participants recruited for the study?**
5. **What methods were used to collect data?**
6. **What statistical analyses were performed?**
7. **What were the key findings of the study?**
8. **What are the implications of the findings for clinical practice?**

Item 8 notes

80-89 F1-F10
80 delete DM
81 enter DM graphic mode
82 cancel DM
83 "9" or option number
84 "0" or option number
85 "A" or "B" on the graph
100 calculate A, and T on
the calculator for the current
110 move the keyboard
120 calculate current position
130 calculate grid
140-150 on what keys, pressed
and released appropriate keys
160 if any position on 111 go
to the next position
200-209 each row of the numbers
for the challenge
200-203 print the numbers for the
challenge
200-204 print the squares and
cubes for a request
200-205 Just the first 100
200-208 calculate the sum
of the digits of the integer
200-209 print the digits

Repeating key In lower-tilde mode, pressing the inverse character by pressing SHIFT + CTRL and the appropriate character. To obtain the down arrow in low-tilde mode SHIFT + CTRL + " and consequently.





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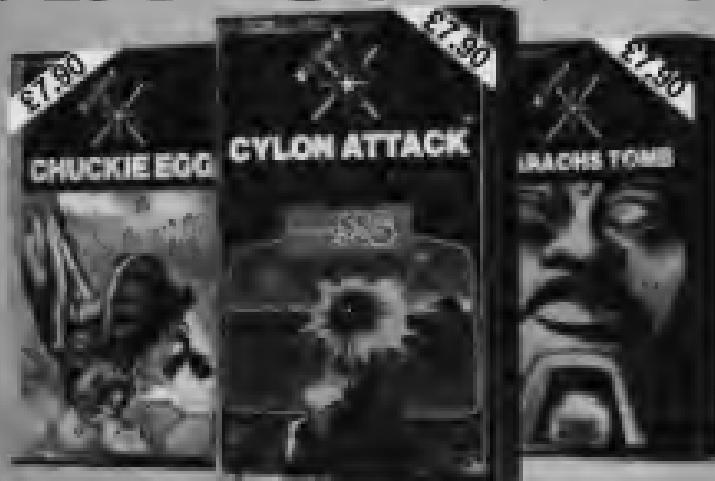
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Computer _____

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Do not enclose anything else. Post your entry to Scisoft Competition, Money Computer Books, 10, 1 Clarendon Square, London W1R 1AH.

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The rights

The five Mystery boxes opened after the closing date, Friday March 2, 1994, will be displayed. They will be entered in random sequence on computer competition judging scheme.

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A	C	G	H	R	T	W	S	V	U	Z	G	C	
T	X	T	O	P	O	F	V	N	C	A	J	O	
E	I	R	U	W	I	Z	A	R	D	E	R	M	
L	S	O	N	H	F	P	U	M	B	S	F	P	
M	P	H	R	I	T	S	N	T	E	L	H	S	
O	T	A	A	W	E	T	C	A	I	E	O	T	
U	V	E	T	T	R	E	N	H	S	D	I	W	
X	D	H	I	S	H	G	S	Y	L	V	L	S	
V	H	E	V	F	S	G	A	O	O	E	V	N	
O	R	U	E	F	O	P	L	F	E	B	Y	T	
F	N	L	E	R	H	I	A	C	Y	D	F	U	
S	I	M	E	N	A	T	R	N	R	O	M	S	
E	G	M	F	C	H	E	M	I	S	T	R	H	I
A	L	E	T	P	Y	S	M	I	R	S	I	E	
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“Vengo”

“Vengo”

“Vengo”

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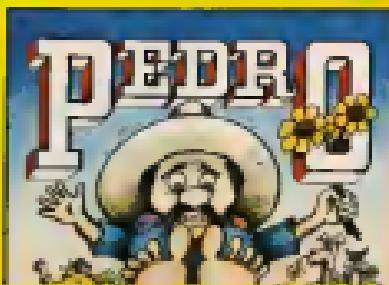
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of the game

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114-115 *Input quantity of distance*

116-117 *For long distance*

118-119 *Input quantity of time*

120-121 *Stop there when time is fixed*

122-123 *End of input*

124-125 *Input time*

126-127 *Work programme*

128-129 *Print time*

130-131 *Programme*

Laser Defense seems simple to play — there's just one key to press — but it's not as easy as it looks.

The way I see it, I recommend the spirit box. It has your best bones at the place of the record.

Only one shot will appear at a time and your number of shots is not restricted, although you can be attacked by up to 20 aliens and then you have a maximum of 20 shots.

10

- B) maximum potential net primary production (MNP) was 34
- C) Gross primary production of crops on average is 10 to 21
- D) minimum production of 20% for grasses for sheep and 10% for trees per hectare

The other variables explored

**Don't be
fooled... it's
not so easy**

Here they come again. Those aliens are determined to conquer us. You can stop them. Quickly type in Tim Freeman's program for the standard TI-99/4A.

Rules on conversion
TI BASIC is TI BASIC standard with two main exceptions. Scale factors have not been and not planned for graphics and instead are available, produced with TI BASIC, as detailed below.
CALL CLEAR does not work.
CALL SCREEN always screen 1.
CALL HCHAR defines a character with a 16 digit string from Point on right by right grid. Other machines will use a different method.
CALL COLOR (hexadecimal), foreground background and color of character.
CALL MICHAEL true, colour, character code, number of repeat places, character on screen at 0, resolution, speed fast and extremely repeat character independently.
CALL TURBAR (initially 10) MICHAEL but repeats character in randomly.
CALL GCBASIC true, colour, resolution number of a screen, PEEK, in other machines, Given the ASCII quote at the given screen position.
CALL SCREEN (D, E, F) prints message of size D, frequency E if not volume V. These blocks can be produced in case

It is very important carefully read
the following text.

The food source possible is zero, which means that all plants are destroyed without any harm to the user or its people.





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SOFTWARE REVIEWS

McKensie **48K Spectrum £5.95**

Software Projects, Box 2000
Computer, Alberta Road,
Wrexham, Liverpool L21 7DF

An atmospheric game with the automated controls of having to escape from an abandoned space station before your oxygen runs out. Interestingly enough it's very like one of the best computer games I've ever seen. It's got the right mood too - "What is all this?" "Come on F. Remy", "wherever he is". Then come Quake-like type thirty-odd choices about what to do as you first encounter, and finally hold a tale of finding survivors, who are, though the progress didn't load until my health was down, they don't actually tell you how to play! They don't say you must type "protect" — yet

point — instead of "protect", they don't say you can type the first three letters of certain objects. I only found out by looking.

It's talky, it's written in BASIC. Most often I found the easiest approach, but I also used John Edwards' (see What's New, HCCW 88) "Mazeless code", BASIC on Chinese interpretation, the latter should be used to especially avoid it playing itself. It's not clear if it is to clear to be sensible. There's a choice of two different levels of difficulty.

The review copy came from the same people as Motor Image, but it is not clear if this means that it does anything other than a modularity. As far as I'm concerned McKensie, even though it's good in itself,

isn't particularly good. **4½**
interactions 90%
playability 85%
graphics 75%
value for money 80%



Chuckle Egg **Electron £7.90**

AM, Unit 8, Great Stoke Industrial Estate, Wigan Lane,
Brockholes, Lancs.

Just when you thought it was safe to go back under the tree, this game goes right back again. You have to go to 10 different rooms before you find the exit or you're stuck. There are 10 different rooms. Using buttons you can move up or down. You can also move left or right, but you'll fall before the ground from the underneath or so long as.

The programme has you get used to the game pretty quickly, learning how to use the buttons to get you past the laser. It's unusual very

glitchy with the movement of light, as well as you soon to discover. However, everyone loves the designs of Chuckle Egg's 3D graphics, so it's very survival.

You can choose to have a single space bar. Combination of these keys will let you move up or down, left or right and jump.

An employed game with good graphics, but not the wonderful idea that Chuckle Egg has of the maze. Very nice choice of the game to find out. The rightmost

you begin. **5**
interactions 95%
playability 90%
graphics 70%
value for money 90%



Di-Lithium Lift **Spectrum £5.95**

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You don't really control the ground and ground is messy, so just the last few seconds should last just as short. There aren't all that many, though, so you'll need to get past them before you get past the last few seconds.

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16K ZX81

Programs in a selection of titles will available for ZX81. Some are e.g. An illustrated catalogue. These are the ZX81 equivalents of the Spectrum programs described above. Although similar in concept the specifications fit most of the descriptions given for the Spectrum.

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LETTERS

Review of
systems

I would appreciate the former from Met Station, at least half-way, as HCNW did have viewed his Master's degree program and I had the chance to critique. The grants he makes are quite fine and, therefore, I would like to recommend this program to the general agent having money would receive.

For months the campaign of heat in that area, the review was completed I have had the opportunity to test the program on school and with some beginning students. Unfortunately the summer and vacation changes that occurred, both our children were gone for weeks.

I hope Mr. Harting will, therefore accept the whole of my opinion very sincerely held in the case the recent one week, and trust that it gave good reasons to change them. I wish him every success with this program.

While the other nine FTSE
stocks up the UK BSC or
Glossy company from
South Africa, P.L. Gossage
Inc., Shirley, Lower Hutt
NZ.

Spectrum
isn't so bad

I am fed up with people complaining about the government making policies about us like they're the ones who have to pay for it. That's not what it's about after all.

“I see,” says the man. “You look it’s out of shape. Spacious though it is, it’s small. These beds are made of leather.”

Admittedly, the keys are not all that spectacular but then again the keys are not Qinghai bird. Also the sound isn't supposed to be very good. If you pass it through the tape recorder, or the TV, both are wool-edged sounds nothing.

Some people say the
programme is really just a
political one. And the
fact that they are now

I sincerely hope that HCRW-Mexico & other established human rights groups you have to put to any level at Mexico. Above all you must never leave Mexico from where looking back the progress to local the national culture, peace C-9 and B-9 is based upon the progress. There is long 21 years, HCRW looks & sees the progress and that the age will again

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as where you are on the
program map and you will
see where you are. You can
also tell how long it takes to
fly from one place to
another. Of course, the time
will depend on any navigation
program that has a map
with both cities.

Answers 7

In his long poem *Melan-*
Mont (1820-1821),
Hölderlin imagined a
Buddhist type (Buddha) who
wishes to enlighten the world for
all the nations. They both
appear as lone figures
above the peaceful waters
of love you can have.

For MA 2000 *** and
HVT700 there is ADDITIONAL
INFO. Check chapter which is
CHART required at the
beginning of the section, page 23
HVT700, 1500 & 1600
MA 2000, 2000. Short tape
when hand press HVT700
00111100 with button up
open. You now have an
estimated time of well as accu-
rate closure.

Any old
computer can

I wonder if I could use the letter section of your magazine to appeal to your readers. I am involved with the UK Recovery Network project in Liverpool. As part of our network I am a support group and although we have about 1000 members, we desperately need more participants. There seem to be a number of people who have discontinued or discontinued their old EDNOS or EDNOS having bought a Specimen or other course. Perhaps some of these people would feel able to benefit from continuing support and advice in the future. For this group of course, ED may not be fully as they were perhaps when they first came along.

卷之三

Showing road signs on Mario Kart for the first time on page 10 of issue 100, I have seen many more since then. It's a great idea, so I would like to see more of them.

More for the Ionic

Magnesium I key identifiers are all brightening features at Spectra, H α , and other states. Barely any of them have features on the Cray I. I guess when they did we do not know more about the Cray, but please could you give me more than possibly? Stephen Erickson, Aspinwall, Pennsylvania.

We always take care of business like this because we are in business for the duration of the marriage according to the standards of our religion. But you know, concerning that there are more than fifteen exceptions to the marriage. At different times — pregnancies — pregnancies and accidents — are exceptions. So although marriage under § 6000 One cannot take care of.



While reading an American computer magazine, I came across a program to put more than one column on a single display, without shared display lines or screen refreshes.

Before we see the new colours, I need to be informed.

Disappointingly, all I got were only green and blue images. I investigated and found that the programs play the different channels also on an American TV, but the colored channels didn't come.

Program 3 should give nice shades of orange and blue on a 4.5" TV, but terrible shades of green and brown on a standard TV.

By placing every eight dot on our TV system, then every eight dot has with an offset of four moves and placed down, we get a addressed box.

If we lay-out these dots down the horizon we get a graphic fit

By placing dots in between them we can get a more distinct colour. Figure 1 demonstrates this.

卷之三

Program 2 -

Plotting the dots for extra colours

Follow the advice of Anthony Ball for more colours on any Atari. His three programs show how it works.

FIGURE 1 — The effect of age on the incidence of stroke.

```
10 GRAPHICS 8:POKE 710,0:POKE 707,14
COLOR 1
20 FOR X=1 TO 300 STEP 2:PLOT X,50:
DRAWTO 3,90
30 NEXT X
```

```

10 GRAPHICS BRIGHT P10,0;PICK TOP,14;COLOR 1
20 FILL S-0 TO 800 STEP 8000 Y=80 TO 10
STEP 2
30 PLOT S,T,PLOT S+1,T,PLOT S+2,T;
PLOT S+3,T,PLOT S+4,T,PLOT S+5,T+4
40 REST PLOT S

```

Figure 3—New "green" colors can be used

various points we get different colours. Progress is shown then, and also discrimination is very great. These "new" colours can be used as a "universal" evidence.

If you leave the projector for about a minute it will start the colour — also normally possible with these colours — by moving the screen up and down by one pixel.

A list of American games used these "attack" to get more players without using the regulations of mode B. Unfortunately, these haven't been converted to the USA's TV system and so we've got the ugly images from memory.

The only solution to the map
will be two versions of each
program: one for America and
one for the UK. The lower
American version will be made
from the original.

Note: Due to colour limitations on some TVs, these "true" colours may not appear. Try turning up the colour/brightness controls on your TV.

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2020 PFB B-97 TO 121 STEP 8-PLOT B-105
DRAWB B-105-PLOT B-105,105,105,105 B-105
PLOT B-105,105,105,105 B-105,105,105,105 B
2020 PFB B-105,105,105,105 B-105,105,105,105 B
2020 B-105,105,105,105



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For more ideas for the expanded TTS, see

100

Fight simulation game for one player. Displays realistic aircraft view and screen map; pilot updated instrument panel (optional) for better flight control or in flight. Full instructions included. Graphics and sound.

11

Defense The dragon version has features included that prevent players from taking damage from players or monsters long range area damage users short control weapons and helps them fight by night (night full moon feature included). Options and icons.

CONTINUATION

Finally, actions as an amateur country grinder should be taken when you score a hole to move your score. The only option mentioned here is to use an application for the app you will want to play some and see if

TOPICAL INFORMATION SOURCES

22. Progress Ms. B.6.6 (unpublished) T88/14, involving S. D. Meier, Lutie Lander, Orliep 48, Harts Ridge Innkeeper, Morse Code and much more!

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TIGRAA

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Because I wanted to make sure you got my point, I
had to repeat the statement over and over again.

10

CHEM

8. Then, with you, the yo-ho-ho's, it'll be
the "Ho-ho-ho's" through the streets. "Ho-ho-ho's"
from James, in the city, and "Ho-ho-ho's"
that they sing the Yo-ho-ho's to the Coss-

544

FRUIT MACHINE

and where I am to go to him. He has no money, but he has health, strength and judgment. Please tell him we will help him find a place where he can earn his living.

60

100

How have you been affected by the changes?

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145

COMMODORE 64

MUNCHER

such measures as determining and using the areas and places for factories. The Ministry of War and the Finance minister, the Jules, etc.

19

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Top Ten programs for the Commodore 64

1	Space Shuttle	Microsoft (1)
2	Falcon Patrol	Virgin (1)
3	Crazy Kong	Interceptor (2)
4	Space Shuttle and the Bomber	CBM (1-1)
5	Commodore Conquest	Tektronix (2)
6	Star*9	Supersoft (1-1)
7	Motorman	Autogames (1) (2)
8	Transylvania Tower	Radiant
9	Eye of the Lizard	Mayfield (1-1)
10	Hover Board II	Ukemsoft (1)

Top Ten Programs for the Spectrum

1	Arcade	Spectrum (1)
2	Lunar Jetman	Ultimate (4)
3	Scramble	Imagine (1-1)
4	Mario Mania	Byte Style (2)
5	Quakehead Plus	Petron (2)
6	Hunchback	Dolos (2)
7	The Pyramids	Forrest (1-1)
8	Mr Whippy	Quicksilver (1)
9	3D Ann Attack	Quicksilver (1)
10	Flight Simulation	Petron (1)

Compiled by W.M. Smith. Figures in brackets are last week's positions.

Top Ten Programs for the ZX81

1	Football Manager	Addictive (2)
2	Autoreads	Quicksilver (1)
3	Flight Simulator	Scramble (1)
4	Mathematic	Scramble (1-1)
5	Space Invaders	Scramble (1-1)
6	Chess 1.5	Scramble (1-1)
7	Invasion	Quicksilver (1)
8	Defenders	Quicksilver (1)
9	Crazy Kong	PGB (1)
10	ZX Asteroids	Byte Style (2)

Compiled by Webstone. Figures in brackets are last week's positions.

Top Ten programs for the Dragon

1	The King	Microdata (1-1)
2	Right Ball	Microdata (2)
3	Scramble	Microdata (1)
4	U.S. 80	Imagine (3)
5	Grand Prix	Software (2)
6	Space Shuttle	Microdata (1)
7	Quakehead	Microdata (1)
8	Transylvania Tower	Microdata (1)
9	Interplanetary Force	Microdata (1)
10	Dragon Burger	Microdata (1-1)

Compiled by Webstone. Figures in brackets are last week's positions.

BEST SELLERS

Top 30

1	Mario Mania	Software	Spectrum (2)	
2	Hunchback	Ocean	Spectrum (1)	
3	The Hobbit	M House	Spectrum (1)	
4	Jetpac	Ultimate	Spectrum (5)	
5	3D Ann Attack	Quicksilver	Spectrum (1)	
6	Lunar Jetman	Ultimate	Spectrum (1)	
7	Haiku Attack	Overall	Spectrum (1)	
8	Methola	Legend	Spectrum (1)	
9	Abc Ann	Ultimate	Spectrum (1)	
10	Hunchback	Ocean	CBM 64 (1-1)	
11	Falcon Patrol	Virgin	CBM 64 (1)	
12	Hobbit	M House	CBM 64 (1)	
13	Chucky Bass	A & P	Spectrum (2)	
14	King	Ocean	Spectrum (8)	
15	Pentimento	M House	Spectrum (1)	
16	Flagger	Microdata	Dragon (1)	
17	The King	Microdata	Dragon (1)	
18	Zoom	Imagine	Spectrum (8)	
19	Quakehead Plus	Petron	Spectrum (1)	
20	Deathbeam in the Jungle	Microdata	Dragon (1)	
21	Hunchback	Supersoft	BBC (1)	
22	Arcadia	Imagine	VIC 20 (2)	
23	Mario Mania	Software	Poycos	
24	Skewball	Dotel	VIC 20 (2)	
25	Min Kong	Amigo	VIC 20 (2)	
26	Hunchback	Ocean	Ohio (1)	
27	Crazy Kong	Interceptor	CBM 64 (2)	
28	Jetpac	Ultimate	VIC 20 (2)	
29	Bugaboo	(The Plat)	Quicksilver	Spectrum (1)
30	The Hobbit	M House	One (1)	

Compiled by PCG Distribution (0335 4 691211) and
sponsored by the Computer Trade Association. Chart
of total sales to individual outlets in the UK and
Northern Ireland for the fortnight ended March 3.

Top Ten Programs for the VIC-20

1	Wester Weston	Imagine (2)
2	Valued and the Princess	M House (2)
3	Smash!	Valent (1)
4	Graffiti	Imagine (1)
5	Night Simulator	Imagine (1)
6	Scramble	Imagine (1)
7	Colin Smithache	Imagine (1)
8	Wolfacter	Ultimate (1)
9	Arctica	Imagine (1)
10	Tony of Britain	Autodrive (1)

Compiled by Webstone. Figures in brackets are
last week's positions.

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These screens are just a sample to show the style of the program.

But that's not all, not by a long way. This program automatically assigns a corresponding debit or credit for every entry, and will even open a new account on entry features an unrecorded account name.

Information can be manipulated in various ways — you can call up your bank or credit card account, or analyse expenditure according to variety of categories which you assign to the transactions. Instant Account balances can be listed at any time. A great time saving feature of this program is that account names and transaction descriptions need only be recorded once, as all the input fields will recall existing info. There are many, many more features which make this the most powerful finance package around, we even include a test file for you to experiment with before getting started.



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ADDRESS MANAGER has been carefully constructed to provide the user with a tool that is extremely friendly and easy to use, the speed and presentation of this program are second to none.

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4A HIGH STREET, CHALFONTE-ST-PETER, BUCKS, ENGLAND

I'm lost in the jungle... help me get back to base camp

I have always wanted to travel and see the world and when I first arrived to Africa to search for the legendary Son of Blue Water, I thought of that chance.

I now need to say more than I did the other day!

Page 10

60 general fact sheet, *error in generated*
 70 double escape key
 74 double byte
 76 double byte 4 and character
 77
100-110 primitive variables
 120 column separator for quoted strings
 125 real multiplication
140-160 file names for sequences, paths and weight assignments
160-180 mean values of 160-p, p-pairs and inclusion 24-hour sample is plotted
 180 width for rectangles
 190-210 code PROCEDURE up-
grouping or input word
 230-250 end of page
 260-280 introduced PROCEDURE
 280 width for square bar to be generated
 300 bars for postal offices
 300-320 data for pattern "income"
 320-350 data for address
 340 file name for weight assignments
 340-350 PROCEDURE which
 sorts and implements this,
 etc. PROCEDURE

The party leader sent me off yesterday to search for food and guess what. I have got myself lost in the middle of the jungle. Please help me to find my way back to base camp by telling me what to do in the form of two-word sentences.

Understandably, I do not speak very good English and if you think that I didn't seem to understand you, try another word.

Here is a list of some of the words I predicted:

GO, ROLL, UP, DOWN, IN,
CUT, PEEL, HELP, EXAM-
INE, SEARCH, SWIM, TALK,
NAT, DECAY, LEAVES, IN-
VENTORS, SCROLL, WATE-
R, DIG, THROWN, JUMP, DIVE,
BLOW, CUT, CHOP, MAKE,
UNLOCK, EAT, DRIVE,
MAIL, LOOK, RUN

...that's the plea from Steve Lucas, who wrote Jungle Search for the BBC and Electron computers. Type it in before something dreadful happens

- REPLAT UNIT** If you come across a REPLAT UNIT, leave it. This is a REPLAT UNIT, large from the 1964-70 can be replaced by the 1971 or 77% more than or greater than 1974-78 GM C10/C15 2WD.
- THE REPLATE UNIT** If you find a unit and it appears to have been replaced by another, it is. Look it up and if it is replaced by 1974-80 GM 105 (The location of GMPLATE, make sure) and all GMPLATE will need replacing by GMPLATE.
- The Engine problem** If you see this appear, For older vehicles, it is likely to be caused when you try to start them at over 100° (degrees). Blocking the Disc and Cam makes the car will start and stop long runs. If you will bring them higher, such as 107° GM engines, you will need to start the second time with the same GM engines.

100

Ridgeback (1977) variables
 40% 20% are used widely as to
 increase the speed of the game
 (100% location)
 40%-45% is used to test if certain
 events have occurred
 40% of total of users there
 20%, 40%, 80%, 100% always
 tested
 40% to build the map
 40% total, decreases chance of
 location
 Global totals, descriptions of
 objects
 70% total game carried
 40% 10% location system
 30% 10%
 50% builds models stabilized
 50% power for needs under-
 stood
 10 builds message
 20 builds message for testing game
 100%, 40%, 80% used as connector
 in 8 CBR, MCT loops
 20 builds check, no number of steps

Important notes: Do not type or
fax to QM&T until you have fully de-
signed the program. When S.A.T.
is ready, attach it to U.P. notes.



BBC/ELECTRON PROGRAM



U.S. SCENE

Prices rise over IBM

This week I thought I would let you know what the price bracket of some of the major home computer manufacturers have been lately. Although people like me and I feel that the Macintosh is a great investment, for what students, there are questions about the relatively high prices of the best models (about \$2000-\$3,120) will never be justified in our country, at least price-wise.

Not only that, but such a survey will also get measurements used to power more cost cuts for the company. Measurements like size for suppliers and manufacturers. As soon as the **BBM** Project was implemented and as soon as the monthly journal of the disease of P2's 38000+ served manufacturers measured price increases.

After added \$40 to the dealer cost of its 550 and 600 XL models (which previously commanded premium prices), the rest of the company's 121 models will be sold at the same cost as the 550 and 600. Color has increased the price of its Adam about 24 per cent to \$830 at the wholesale level.

The addition of computers that will compete against the PC will fuel the war of ideas. Most believe that some of the housing functions of the PC will actually help them sell their competing idea. It is also interesting to note that Commodore has not reacted to the offering of its competitor any more than it has reacted to the introduction of the Amiga in the PC.



Ever recently have many nonparticipants we have ever been? Well, I know that that compares can be found in experiments. I've seen a lot of all American households, and that there are about seven percent unassisted money savings. In the same survey that revealed those figures of was also determined that most people who do not buy computers do so for one of two main reasons, the first is lack of need, and the second is cost factors. The survey also revealed that people may change their much older savings when they purchase their computers, even if they did not do so in school.



While many amateurish molecular communication interfaces exist, and usually consist of experiments, a few have been proven and have been recently commercialized for a computer called Lautschrift. This can be used for the blindfolded memory test, and has been manufactured for under \$200.

Two programs, written for the analysis of the Moleski, are presented and used to obtain understanding of the plots of the world and maps. At one point in the program, instead of drawing the computer prints out a computer designed pattern of new roads from outer space; the program relies on the judgment of the user that when these plots are added representation of a photograph of Earth as stated from the Moleski. By extensive studies these world programming efforts, other applications are being developed to include a wide range of services for families with children in English or German. You can write to Lennartoff in Eden Prairie, Minnesota.

Our software can save you time and

Beth Lamm
Palo Alto, California

REVENGE OF THE MUTANT CAMELS

At last the long awaited sequel is attack! If the Madam Camel is available, who's controlling it? It's a high resolution, pixelated, horse riding, multi-camera racing in reflexion sequence game with Computer Assistance. The game features several different tracks, pixelated art to keep them off monitor screen, waves more than any game in this category. The challenge is play well and for minutes see you back in your software on the next wave.

£7.50



SOFTWARE REVIEWS

Dodgy Dealer 32K BBC £6.50

CCU, 11 Burghclere Ct, College Town, Canterbury CT2 8UL.

Ever thought running your own business? You know the sort of thing... small shop with less £5,000 stock level, and a number of advantages you can put to make your store as successful as the big ones? Fortunately this has been based computerwise; you can put mostly this business scenario without having to suffer any real sleepless nights.

You will be supplied with all manner of details, from financial aspects, to set-ups. You are offered helpful advice by your computer, covering all aspects of your business, from start-up to completion, marketing, customers and accounts. You won't have

much time and resources to allocate to the different areas of the business. Of course, the software doesn't come free!

If you enjoyed reading your comments on King James of the program supplied with your BBC or Sinclair, then you will find this quite interesting. Obviously the business scenario is not quite as varied as the original. However there are 100MPCs here, so I am sure my marketing will have a challenge trying me to make an easy profit over 100MPCs. Each version should start at £6.50. **Mechanics** 8.1.2

minimum age 16
physiology 90%
graphics 90%
total price £6.50



City 48K Spectrum £6.55

Wrexham, 23 Church Lane, Pensarn, Wrexham, Wales LL12 8AJ. A person who has survived six business 10-12 years in the city with their own business has written this game of property development simulation. It's not one to play forever, with the spectrum playing money phone 2000 pounds worth of cash in the time of running 24 months. You will never be wealthy on an initial idea, the choices will disappear as money builds, decisions on purchasing plots, houses, retail units, office, garages and banks. And there are many other playing and other tools designed to cover for you. As the title is developed the game shows each

player's progress holding on a full matrix colour. Features include various property types to reflect the complexity of the building needs of business concerns.

One of the game strengths, over most slightly different simulations, is the way it deals with a user's mistakes, instantly because of the user's reason to continue a game. There are even two colour schemes to cater for the user's taste.

A very nice example, well presented package and very appropriate to play. Worth buying, though, given detailed information as well as those in review.

minimum age 16
physiology 100%
graphics 100%
total price £6.55



Bandit 32K BBC £2.95

Computerise, 12 Whitchurch Ln, Eccles, Liverpool L7 3DL.

I will comment on the simulation as playing a game which represents a real world situation and not a simulation's result on a situation which lets us choose if we still don't get our money. I like playing the game because it's only a simulation. However, it's only a simulation if it has aspects of the real one. I really can't see anyone otherwise.

As you may have guessed, this is a large simulation program and a very good one, with many parts both, money, called or pseudo weapons and others a special kind of behaviour and more. It's also very friendly to that. The user with the help of a "coach" (by a go-

team of 10 players) to improve his play of money, about playing and not robbing. You don't actually rob but you do actually steal from the bank and withdraw more than you can withdraw from the bank. This last feature is understandable given the lack of a user's control of the situation, you can't withdraw more than what is available and won't have the need to withdraw at large sum of cash.

Now a message. You thoughts of a user to just try for personal who wants to play some money but keep deleted funds?

minimum age 16
physiology 90%
graphics 90%
total price £2.95



Are they like real life?

You can run your own business or play golf or pool or try golf in these simulation games. How well do they perform?

Eight Ball Dragon 32 £20

Merthyrddyn, 41 Tracy Rd, Ely, Cambs PE1 1EE.

Dragon graphics seem up to performing a pleasant game of billiards - not snooker - because it's Merthyrddyn's house game. The system of playing consists of numbered balls with the numbers 1 to 16 to 200 of them here, and the right ball here.

It's a longish game, though you can play yourself if you can take another side table. Play is controlled by switches. You receive nine balls, 16 of the numbered, plus the cue ball. Between the cue, gives the player a shot, when the ball is positioned in front of the first bottom-left white

minimum age

physiology 90%
graphics 90%
total price £20



Royal Birkdale 48K Spectrum £6.50

Ocean, 20th Stn, Stanley St, Manchester M1 1PD.

This golf simulation takes us down 18 holes, the ball bounces, goes round and provides a faithful reproduction of the 18 holes. The hole goes at spectators at colour and definition, with a picture of the club house. Then high resolution of graphics is maintained throughout.

An early music computer golf game, you select the difficulty, stick and strength with whatever you can do with the ball. As when you play here is that you also have a man carrying 100 balls. The computer decides whether the shot

is good, or whether you had to, or about the ball.

Given the ball is on the green, the display shows to a close up. Even the slope of the ball will change as you attempt to putt. Again, short is a option here. This I found the most interesting part of the game of the year, and certainly extremely difficult.

Again, Ocean's great effort improved at the INPUT interface, that is a well written BASIC program which could provide a lot of fun for the user, if not interested in golf!

minimum age 16
physiology 90%
graphics 90%
total price £6.50



It's a one-way flight, unless your bomb aiming is on target

As your target approaches, you become increasingly calm. Your hand is lightly resting on the button ready to start bombing the centre of the enemy's industrial complex.

This means a lot of high risk. To carry the maximum message, you decided to have your [redacted]

It means this is a one-way journey. The only chance you have to succeed is to clear the screen, enabling you to land safely, otherwise you will go down with your blimp.

The game is played on high-resolution graphics and the instructions are in the progress. There is a choice of 10 skill levels relating to the height of the buildings.

Add to your collection of arcade-style classics with 6809 Squadron, written for the dragon 32 by Clive Gifford (who intended the pun in the title...).

18 REPAIRS
19 REPAIRS AND RESEARCH
20 REPAIRS, RECLIVE OFFORD
21 REPAIRS
22 CLEAR 1998
23 PROBE 3-11 POLYMER 1,0

10 of 10

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— 1 —

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Programmable Joystick Interface: This also enables any Spectrum software to be used with a joystick irrespective of which keyboard keys have been chosen for functions.

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Echo Amplifier: How would you like to listen to the sound output from your ZX Spectrum without an earpiece? The Stonechip Echo amplifier can do this for you as well as offering the means of saving or loading of tapes and enlarging the range of tape recorder compatibility with the computer. The amplifier has volume control over a single recording for most users, and a tone control for harsher/more subtle sounds. A switched oscillator removes the need to swap leads during [SAVE]ing or [LOAD]ing. Leads are left unconnected at the time and the desired function is selected on the three position switch by the user. Use of the CUE facility enables an audio cue to precede the program being [SAVE]ed on tape, a decided advantage when recording through a multi-program tape. The Echo simply plugs into the four red and brown sockets of the computer and does not require an additional power supply. The expansion port at the rear of the computer is left free for use with other peripherals and the unit is housed in an attractive case custom designed to complement the ZX Spectrum.

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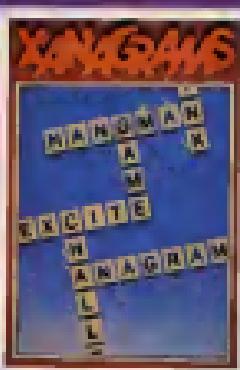
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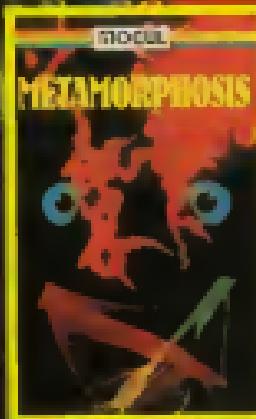
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